

**AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS**

Claim 1. (Currently amended): A flow averaging probe for measuring fluid flow, comprising:

an elongate hollow probe;

a plurality of apertures disposed on said probe for receiving individual fluid flow streams therethrough;

sensor means ~~proximate~~ adjacent said apertures for sensing accumulated fluid flow composed of said individual streams;

transmitter means for transmitting sensed data from said sensors;

signal processing means for processing transmitted data; and

discharge means for discharging fluid sensed by said sensor means and of said probe.

Claim 2. (Original): The probe as set forth in claim 1, wherein said probe includes connection means for connecting a plurality of said probes together.

Claim 3. (Original): The probe as set forth in claim 1, wherein said transmitter means and said signal processing means are integral with said probe and mounted integrally therewith.

Claim 4. (Original): The probe as set forth in claim 1, wherein said apertures are equidistantly spaced along a longitudinal axis of said probe.

Claim 5. (Currently amended): A flow averaging probe for measuring fluid flow in a conduit, comprising in combination:

a conduit for transporting a fluid;  
an elongate hollow probe releasably connected within said conduit;  
a plurality of apertures disposed on said probe for receiving individual fluid flow streams therethrough;  
sensor means ~~proximate~~ adjacent said apertures for sensing accumulated fluid flow composed of said individual fluid streams;  
transmitter means for transmitting sensed data from said sensors;  
signal processing means for processing transmitted data; and  
discharge means for discharging fluid sensed by said sensor means and of said probe.

Claim 6. (Original): The combination as set forth in claim 5, wherein said probe includes connection means for connecting a plurality of said probes together.

Claim 7. (Original): The combination as set forth in claim 5, wherein said apertures are equidistantly spaced along a longitudinal axis of said probe.

Claim 8. (Original): The combination as set forth in claim 1, wherein said transmitter means and said signal processing means are integral with said probe and mounted integrally therewith.

Claim 9. (Currently amended): A method of measuring fluid flow in a conduit, comprising:

providing a probe having a hollow elongate body with a plurality of apertures therethrough and sensor means ~~proximate~~ adjacent said apertures, said apertures for receiving individual fluid streams therethrough;  
positioning said probe within a fluid stream to be measured;  
collating individual fluid streams from said apertures within said probe;

activating said sensor means by fluid entering said apertures to obtain data generated by a collated stream; and  
averaging obtained data to determine a representative flow rate.

Claim 10. (Original): The method as set forth in claim 9, wherein fluid pressure is sensed at each aperture of said plurality of apertures.

Claim 11. (Original): The method as set forth in claim 9, further including the step of generating a flow profile with averaged data.

Claim 12. (Original): The method as set forth in claim 9, further including the step of correcting for variations in fluid pressure at each of said apertures.

Claim 13. (Original): The method as set forth in claim 9, further including the step of connecting a plurality of probes for determining flow data.

Claim 14. (Original): The method as set forth in claim 9, further including the step of averaging data from said plurality of said probes.